

(No Model.)

J. P. WILSON.
CHURN.

No. 463,656.

Patented Nov. 24, 1891.

FIG. 1.

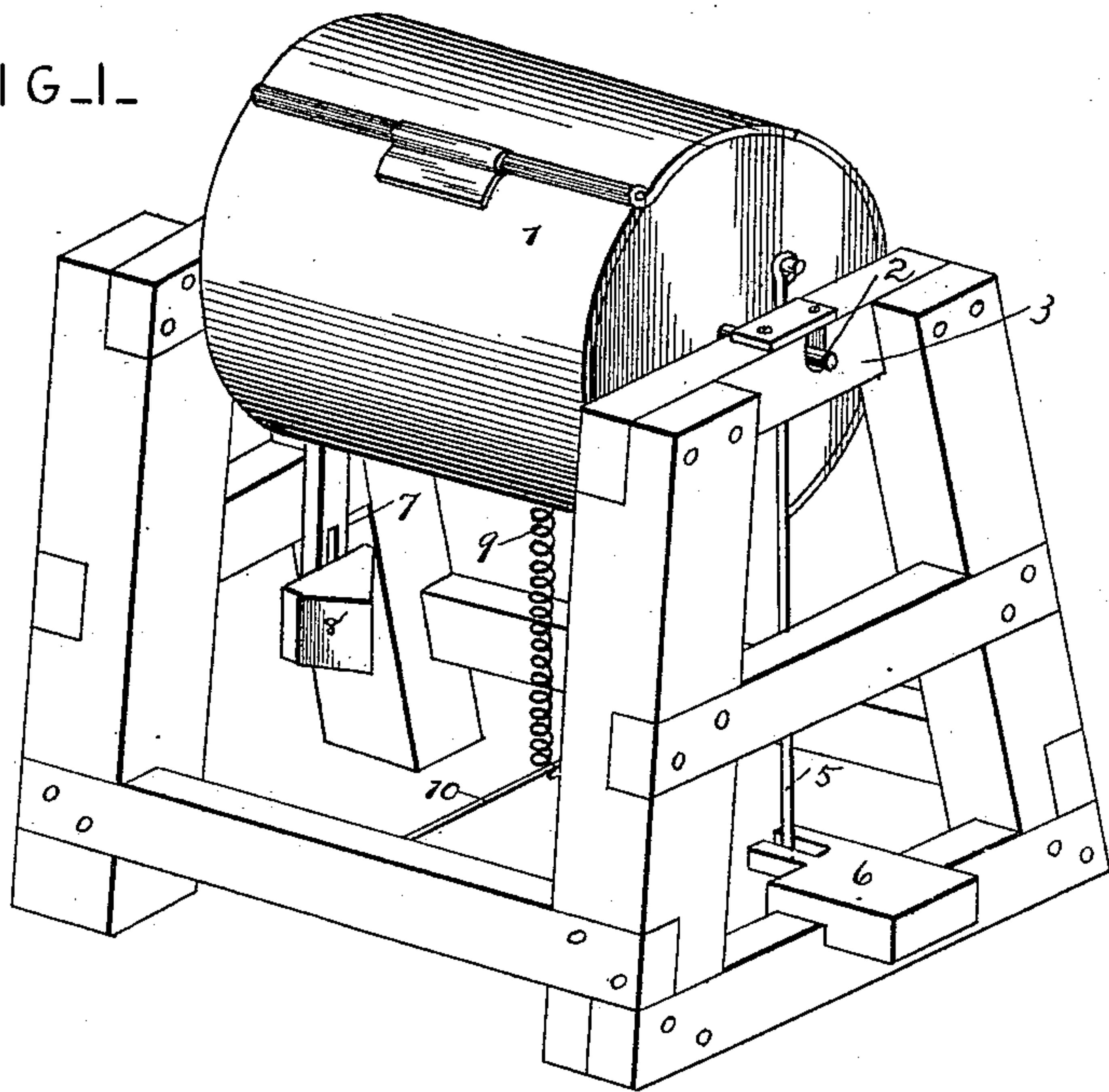


FIG. 2.

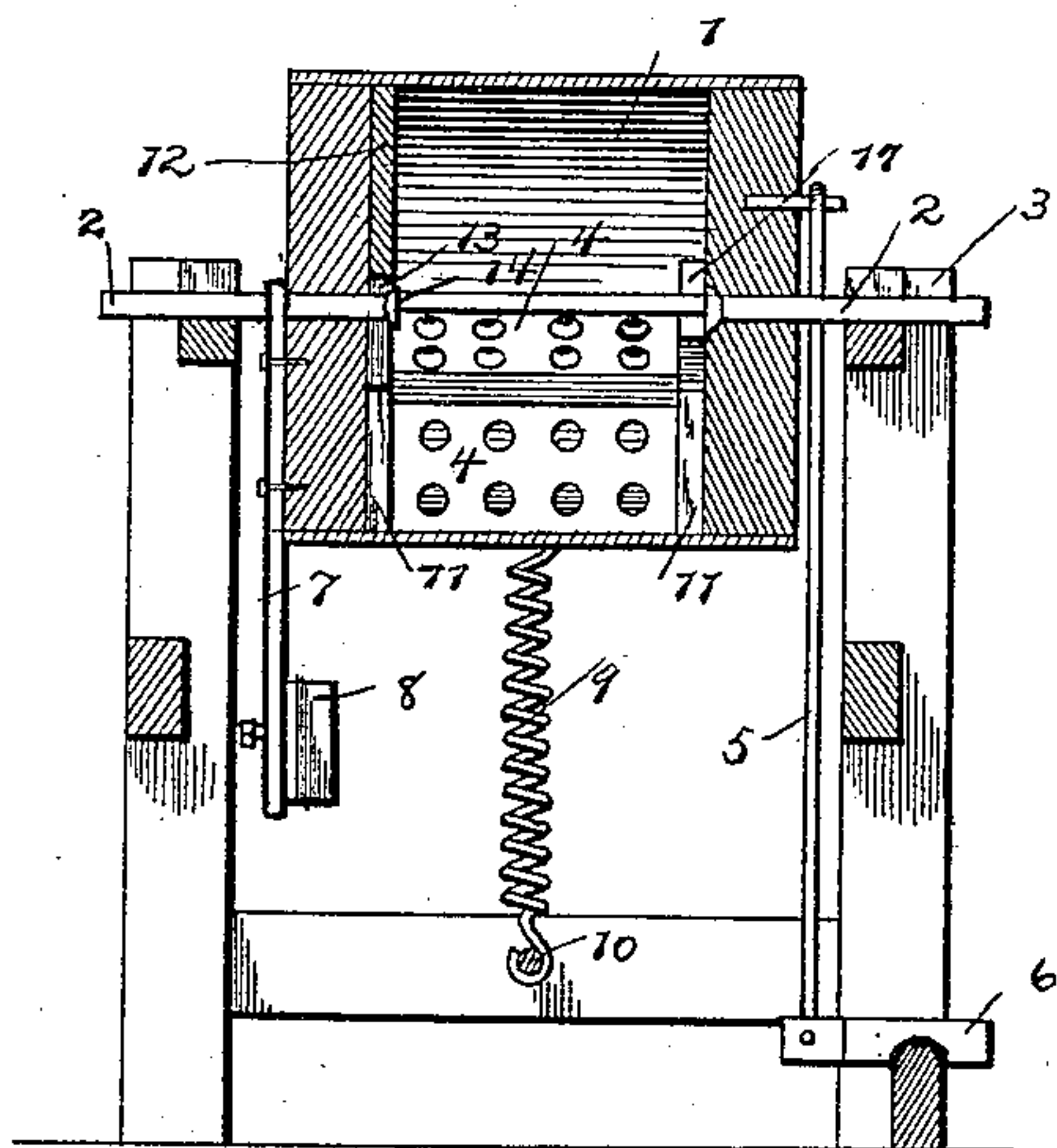
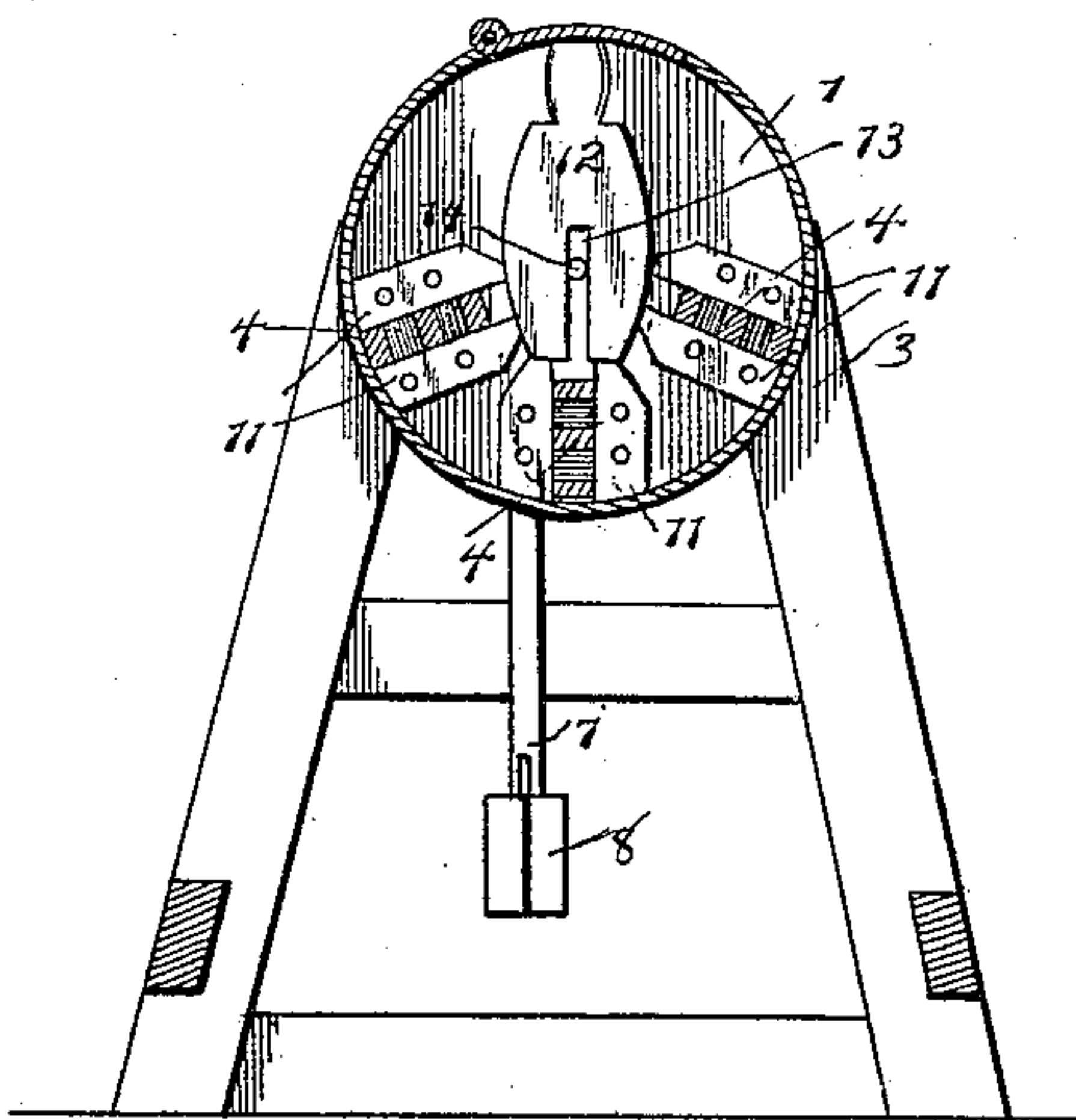


FIG. 3.



Witnesses

B. S. Ober.

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By his Attorneys,

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Inventor

Joseph P. Wilson

UNITED STATES PATENT OFFICE.

JOSEPH P. WILSON, OF GLASGOW, KENTUCKY.

CHURN.

SPECIFICATION forming part of Letters Patent No. 463,656, dated November 24, 1891.

Application filed April 15, 1891. Serial No. 389,071. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH P. WILSON, a citizen of the United States, residing at Glasgow, in the county of Barren and State of Kentucky, have invented a new and useful Working Body Churn, of which the following is a specification:

The invention relates to improvements in churns.

10 The object of the present invention is to simplify and improve the construction of working body churns and to enable cream to be quickly converted into butter.

15 The invention consists of the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

20 In the drawings, Figure 1 is a perspective view of a churn embodying the invention. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a transverse sectional view.

Referring to the accompanying drawings, 1 designates a cylindrical churn-body provided at its ends with journals 2, which are arranged in suitable bearings of a frame 3, and the churn-body is adapted to oscillate to bring its contents in engagement with dashers 4. The churn-body is oscillated by means of a pitman 5, which has its upper end eccentrically pivoted to one end of the churn-body, and the lower end of the pitman is connected to a treadle 6, arranged to be operated by the foot. Secured to the other end of the churn-body is a bar 7, which has its lower end provided with an adjustable weight 8, adapted to be raised and lowered according to the quantity of cream to be churned. The weight forms with the bar a pendulum, and is adapted to swing or oscillate with the churn-body to regulate the movement of the same, and the oscillation of the churn-body is further regulated by a spiral spring 9, which is centrally arranged and has its upper end secured to the churn-body and its lower end attached to a wire 10.

The churn-body is provided with a hinged

door or cover, and the dashers are three in number, and are disposed at intervals at the bottom of the body, and are arranged in ways 50 formed by cleats 11, and when the churn is not in use and it is desired to clean the body the dashers may be removed. The dashers are provided with openings and are locked in the ways by a slotted plate 12. The plate 12 55 has a bifurcation or slot 13, which is adapted to engage a projection 14, arranged on the inner face of one of the ends of the body and formed by an extension of one of the journals 2, and the slot 13 extends from the lower 60 end of the plate a sufficient distance to enable the plate to close the adjacent ends of the ways formed by the cleats. The lower end of the plate 12 is beveled and the upper end is formed into a handle portion, by means of 65 which the plate may be removed to enable the dashers to be taken out.

During the operation of the churn and the oscillation of the churn-body the cream will be thrown back and forth against the dasher-blades and the cream will be quickly converted into butter. 70

It will be seen that the churn is simple and inexpensive in construction, convenient in operation, and is adapted to quickly convert 75 cream into butter.

What I claim is—

The combination, in a churn, of the oscillating cylindrical churn-body provided with cleats arranged on the inner faces of the ends 80 of the body near the bottom thereof and forming ways, the dasher-blades arranged in the ways, the projection 14, and the slotted locking plate engaging the projection 14 and arranged to close the adjacent ends of the ways 85 and adapted to secure the dasher-blades in position, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOSEPH P. WILSON.

Witnesses:

JAMES J. WALLS,
A. DEPP.